

DEC 11 2006

Application Serial No. 10/626,152  
Reply to office action of July 11, 2006PATENT  
Docket: CU-3309**Amendments To The Claims**

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

**Listing of claims:**

1. (currently amended) A reflective liquid crystal display, comprising:  
a lower substrate including a reflective electrode and a lower orientation film  
**having an imaginary line for reference;**  
an upper substrate ~~opposed to the lower substrate, the upper substrate including a transparent substrate and an upper orientation film, the~~ **being a** transparent substrate ~~being~~ capable of compensating a phase of  $\lambda/4$  with an optical axis of a predetermined angle, the upper orientation film being formed on a surface of the transparent substrate opposed to the lower substrate;  
a twisted nematic liquid crystal layer interposed between the lower substrate and the upper substrate, with a predetermined phase delay value ( $d\Delta n$ ); and  
a polarizing plate attached to a outer surface of the upper substrate not opposed to the lower substrate, having a predetermined polarizing axis.
2. (original) A reflective liquid crystal display as claimed in claim 1, wherein the transparent substrate capable of compensating the phase of  $\lambda/4$  is a glass substrate for completely circular-polarizing light of 550 nm wavelength:

Application Serial No. 10/626,152  
Reply to office action of July 11, 2006

PATENT  
Docket: CU-3309

3. (original) A reflective liquid crystal display as claimed in claim 1, wherein the transparent substrate capable of compensating the phase of  $\lambda/4$  is a glass substrate for changing a phase of light of 550 nm wavelength by  $\lambda/2$ .
4. (currently amended) A reflective liquid crystal display as claimed in claim 1, wherein the lower orientation film has a orientation angle of  $0\sim 10^\circ$  with respect to the imaginary line for reference a horizontal line.
5. (original) A reflective liquid crystal display as claimed in claim 1, wherein the upper orientation film has a orientation angle of  $-50\sim -54^\circ$  with respect to the imaginary line for reference a horizontal line.
6. (original) A reflective liquid crystal display as claimed in claim 1, wherein the liquid crystal layer has a phase delay value of  $0.15\sim 0.17\ \mu\text{m}$ .
7. (original) A reflective liquid crystal display as claimed in claim 1, wherein the liquid crystal layer has a twisted angle of  $50\sim 60^\circ$  with respect to the left direction.
8. (original) A reflective liquid crystal display as claimed in claim 1, wherein the polarizing plate has a polarizing axis with an angle of  $112\sim 120^\circ$  with respect to the imaginary line for reference a horizontal line.
9. (original) A reflective liquid crystal display as claimed in claim 1, wherein the

Application Serial No. 10/626,152  
Reply to office action of July 11, 2006

PATENT  
Docket: CU-3309

reflective electrode has a flexural surface.

10. (original) A reflective liquid crystal display comprising:

a lower substrate including a reflective electrode;

a lower orientation film having an imaginary line for reference formed on the reflective electrode, and having an angle of  $0\sim 10^\circ$  with respect to the imaginary line for reference a horizontal line;

an upper substrate opposed to the lower substrate, being made of transparent substrate capable of compensating a phase of  $\lambda/4$  with an optical axis of a predetermined angle;

an upper orientation film formed on the upper substrate, having orientation angle of  $-50\sim -54^\circ$  with respect to the imaginary line for reference a horizontal line;

a twisted nematic liquid crystal layer interposed between the lower substrate and the upper substrate, with a predetermined phase delay value ( $d\Delta n$ ) of  $0.15\sim 0.17\ \mu\text{m}$ , having twist angle of  $50\sim 60^\circ$  with respect to the left direction; and

a polarizing plate attached to a outer surface of the upper substrate not opposed to the lower substrate, having a predetermined polarizing axis with an angle of  $112\sim 120^\circ$  with respect to the imaginary line for reference a horizontal line.

11. (original) A reflective liquid crystal display as claimed in claim 10, wherein the transparent substrate capable of compensating the phase of  $\lambda/4$  is a glass substrate for completely circular-polarizing light of 550 nm wavelength.

Application Serial No. 10/626,152  
Reply to office action of July 11, 2006

PATENT  
Docket: CU-3309

12. (original) A reflective liquid crystal display as claimed in claim 10, wherein the transparent substrate capable of compensating the phase of  $\lambda/4$  is a glass substrate for changing a phase of light of 550 nm wavelength into  $\lambda/4$ .

13. (original) A reflective liquid crystal display as claimed in claim 10, wherein the reflective electrode has a flexural surface.